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Applicant(s): Yasushi AKIYAMA et al.

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Invention: COMPOSITION FOR ANTIREFLECTIVE COATING AND METHOD FOR FORMING SAME

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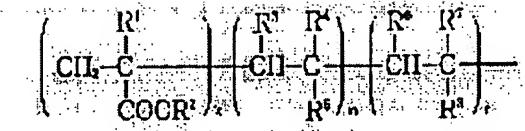
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(54) ANTIREFLECTION FILM MATERIAL AND PATTERN FORMING METHOD

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain an antireflection film material excellent in film forming property and capable of forming a resist pattern with high reproducibility by using a specified water-soluble fluororesin in combination with an amine salt of an F-contg. org. acid.

SOLUTION: This antireflection film material consists essentially of a water-soluble fluororesin represented by the formula and an amine salt of an F-contg. org. acid. In the formula, R1 is H or methyl, R2 is -(CH<sub>2</sub>)<sub>a</sub>(CF<sub>2</sub>)<sub>b</sub>X, etc., R3 is carboxyl, etc., R4 is CH<sub>2</sub>COOH, etc., R5 is C(=O)YR<sub>12</sub>COOH, etc., R6 is COONR<sub>13</sub>R<sub>14</sub>R<sub>15</sub>R<sub>16</sub>, etc., R<sub>7</sub> is -CH<sub>2</sub>COONR<sub>13</sub>R<sub>14</sub>R<sub>15</sub>R<sub>16</sub>, etc., R<sub>8</sub> is -C(=O)YR<sub>12</sub>SO<sub>3</sub>NR<sub>13</sub>R<sub>14</sub>R<sub>15</sub>R<sub>16</sub>, etc., R<sub>12</sub> is an alkylene, each of R<sub>13</sub>-R<sub>16</sub> is an alkyl, etc., X is H or F and Y is -O- or -NH-.



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